

# Goals and Logistics

July 21-23, 2014, Upton, NY



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Collider-Accelerator Department, BNL



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science



# Goals & Deliverables

## ■ Goals

- Identify and/or begin to construct user communities
- Establish approximate parameters for potential new hadron beamlines
  - species, energy, intensity, time structure, topology, ...

## ■ Deliverables

- Working group summary report (Closing Plenary)
- Beam parameters spreadsheet



# Beam Parameters Spreadsheet

	A	B	C	D	E	F	G	H	I
1		Jul 17, 14							
2			<b>Transformative Hadron Beamline parameters</b>						
3									
4									
5		<b>SPECIES</b>	<b>BEAMLINE ENERGY</b>	<b>INTENSITY</b>	<b>BUNCH COUNT</b>	<b>REP. RATE</b>	<b>BUNCH LENGTH</b>	<b>CUSTOM_1</b>	<b>Comment</b>
6			<b>MIN-to-MAX</b>						
7			<b>[GeV]</b>	<b>[per bunch]</b>		<b>[Hz]</b>	<b>[ns]</b>	<b>[unit]</b>	
8									
9									
10									
11									
12	1	Muon spin, MuSR (Fischer, Uemura)]							
13		Protons	42	42e9	42	24	N/A	Self-serve	Only an example .....
14									
15									
16	2	Particle test beamline (Manel, Videbaek)							
17									
18									
19									
20	3	Neutron time-of-flight (Bai, Danon)							
21									
22									
23									
24	4	Neutron anti-neutron development (Bishai, Brooijmans)							
25									
26									
27									
28	5	ADSR/spallation target R&D (Meot, Simos)							
29									
30									
31									
32	6	Radiobiology beamline 2 (Brenner, Rusek)							



# THB Working Groups

Working group	Conveners
Muon spin, MuSR	<b>T. Uemura(Columbia)</b> , W. Fischer(C-AD)
Particle Test Beamline	<b>E. Mannel (PHENIX)</b> , F. Videbaek (STAR)
Neutron Time-of-Flight	<b>Y. Danon (RPI)</b> , M. Bai (BNL)
Neutron anti-neutron development	<b>G. Brooijmans(Columbia)</b> , M. Bishai (Phys.)
ADS-R/Spallation target R&D	<b>N. Simos (NSTD)</b> , F. Meot (C-AD)
Radiobiology Line 2	D. Brenner (Columbia), <b>A. Rusek (C-AD)</b>





# Topology Possibilities ???

**LINAC**

(200MeV H- beam)

**Bnl Linac Isotope Producer (BLIP)**

- Provide commercially unavailable nuclear medical isotopes

**Booster**

(0.2-1.5  
GeV/n  
beam)

**NaSa Radiation Lab**

**Radiobiology beamline 2**

**Test beamline**

**ADS-R target R&D**

**AGS as transfer beamline**

**Muon beamline  
for muSR**

**AGS@23 GeV**

**neutron beamline for n-ToF,  
n-nbar, ADS-R target R&D**

**test beamline**

**RHIC**

(Up to 100 GeV/n H<sup>+</sup> beam 255 GeV proton beam)



# Workshop Agenda

	July 21	July 22	July 23
Morning: 8:30am-12:30pm	Opening plenary	n-ToF	Radiobiology
	muSR		
		ADS-R/spallation Targetry R&D	Working group report writing session
Afternoon: 1:15pm – 5:30pm	muSR	ADS-R/spallation Targetry R&D	Closing plenary: -- working group summary report
	Test Beamline	N-nbar	Adjourn at 4 pm



# WIFI Access

- For visitors, you need to first register with BNL ITD of your laptop, smartphone as well as tablet
  - When you first bring on your device, select corus available WIFI networks
  - A registration form on BNL ITD website should automatically be brought up. Please fill in the forms accordingly, and then submit
  - Should you have trouble, please contact Frank Naase or other system expertise for help. Or, you can also contact Anna, Steve and myself. We can then direct you to the experts



# Presentation uploads

- For speakers, please upload your presentation to the workshop indico site  
<https://indico.bnl.gov/conferenceDisplay.py?confId=719>  
prior to your assigned session
- We also appreciate you can let your session conveners know whether presentation format is preferred on the platform of MAC or PC. This way, we can try to make sure to have the best compatible laptop for your presentation



# On-site Food Options

- Breakfast and lunch: BNL Cafeteria  
<http://culinartonline.com/bnl/>
- Dinner: BNL center
- StarBucks: Bldg 400
- More details can be found in the fliers in your folder



# Off-site Food Options

## ■ Western

- Painters <http://www.paintersrestaurant.com/>
- Phil's <http://www.philsrestaurant.com/>
- 5<sup>th</sup> season <http://thefifth-season.com/>
- Lombardi's on the Bay  
<http://www.lombardisonthebay.com/OnTheBay/>
- La Plage <http://www.laplagerestaurant.net/>
- Ocean5Seafood <http://www.oceans5seafood.com/>
- Pasta Pasta <http://www.pastapasta.net/>

## ■ Asian

- Good Wok <http://www.gogoodwok.com/>
- Sabai <http://www.therestaurantsweb.com/sabaihaibistro.html>
- Benten <http://bentensushi2.publishpath.com/>





# Welcome Reception

- Today (July 21) at 6:00pm In the lobby of Bldg 911, i.e. Collider Accelerator Department

# WELCOME!



*Ms. Anna Petway*

*Ms. Caitlin Scholl*

☺Thanks to the generous support from NPP Directorate☺

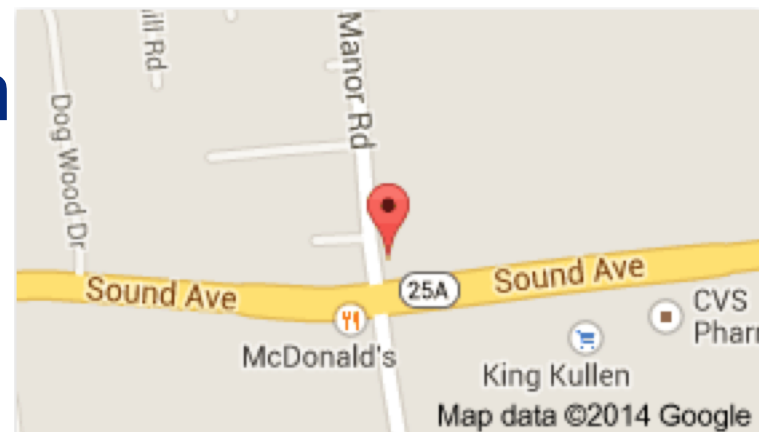




**No-host dinner on  
Tuesday night at 7pm**

*Established 1990  
Wading River, NY  
(631) 929 0508*

**Phil's**  
restaurant.com



**Please sign-up with Anna ([petway@bnl.gov](mailto:petway@bnl.gov))  
before 1pm today(July 21, 2014)**





# Transformative Hadron Beamlines



**We want you to help us!**

- **Transformative hadron beamlines**
- **Feasibility of multipurpose beamline**